



# CONSTRUCTION EQUIPMENT

## SPM645920 SENNEBOGEN 835ME 835.0.2902 - DIESEL ENGINE



**Sample No:** VCP422969  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM645920



### SAMPLE INFORMATION

Sample Number	<b>VCP422969</b>	VCP415202	VCP423172	VCP383260
Sample Date	<b>29 Nov 2023</b>	28 Sep 2023	26 Jun 2023	19 Apr 2023
Machine Hours	<b>5105</b>	4557	3988	3469
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

### SIMS METAL MANAGEMENT

2500 S. PAULINA  
 CHICAGO, IL  
 US 60608  
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 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.1	13.7	12.0
Base Number (BN)	mg KOH/g	<b>8.7</b>	7.6	9.0	6.8
Oxidation (PA)	%	<b>78</b>	81	79	86

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>80</b>	85	83	84
Sulfation (PA)	%	<b>58</b>	59	59	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.2	7.5
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>&lt;1</b>	2	<1	<1
Potassium	ppm	<b>1</b>	9	3	2



### WEAR METALS

Iron	ppm	<b>6</b>	12	12	27
Copper	ppm	<b>&lt;1</b>	<1	1	0
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	3	2	1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>59</b>	64	62	60
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1064</b>	1084	1097	1106
Magnesium	ppm	<b>1004</b>	1028	1034	1032
Zinc	ppm	<b>1310</b>	1340	1365	1372
Phosphorus	ppm	<b>985</b>	1039	1061	1039
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	0

**Depot:** SIMCHIIL  
**Unique No:** 10792834  
**Signed:** Wes Davis  
**Report Date:** 19 Dec 2023



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## GRAPHS

